

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

FORMERLY

SYRIAN PROTESTANT COLLEGE

BEIRUT, SYRIA

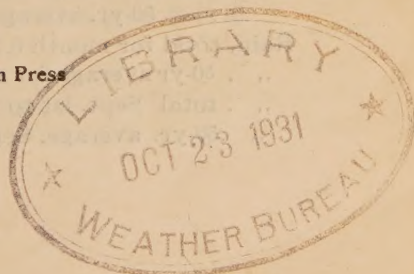
LAT.  $33^{\circ} 54' 22''$  N.

LONG. E. FROM GREENWICH  $35^{\circ} 28' 10''$

AUGUST, 1931

J. A. BROWN, DIRECTOR

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# AUGUST 1931

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to 0°C<br>Sea level and<br>45° Latitude<br>700 mm +.. |       |       |       | Thermometer<br>Cent. |       |       |       |       |       |
|------|-------------------------------------------------------------------------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|
|      | 8:30                                                                    | 14:30 | 20:30 | Mean  | Max.                 | Min   | 8:30  | 14:30 | 20:30 | Mean  |
| 1    | 52.6                                                                    | 53.1  | 54.4  | 53.4  | 32.8                 | 25.7  | 29.8  | 32.2  | 27.3  | 29.8  |
| 2    | 4.6                                                                     | 6.8   | 5.8   | 5.7   | 32.9                 | 23.3  | 29.4  | 32.2  | 25.9  | 29.2  |
| 3    | 6.9                                                                     | 6.0   | 6.6   | 6.5   | 31.8                 | 23.3  | 28.0  | 31.1  | 26.4  | 28.5  |
| 4    | 5.9                                                                     | 4.9   | 4.2   | 5.0   | 32.9                 | 24.0  | 30.1  | 29.1  | 27.4  | 28.9  |
| 5    | 3.3                                                                     | 2.4   | 2.9   | 2.9   | 33.1                 | 24.4  | 29.5  | 32.2  | 27.7  | 29.8  |
| 6    | 52.7                                                                    | 53.0  | 53.4  | 53.0  | 33.7                 | 24.7  | 30.2  | 33.3  | 27.3  | 29.3  |
| 7    | 4.2                                                                     | 3.7   | 4.0   | 3.9   | 33.6                 | 24.6  | 29.5  | 32.9  | 27.7  | 30.0  |
| 8    | 4.5                                                                     | 4.1   | 4.5   | 4.4   | 33.4                 | 24.3  | 30.1  | 32.4  | 27.6  | 30.0  |
| 9    | 3.6                                                                     | 4.0   | 4.1   | 3.9   | 33.2                 | 25.0  | 30.1  | 33.1  | 27.6  | 30.3  |
| 10   | 3.9                                                                     | 4.3   | 5.0   | 4.4   | 33.3                 | 25.3  | 29.9  | 32.1  | 27.3  | 29.8  |
| 11   | 54.6                                                                    | 54.7  | 54.6  | 54.6  | 33.6                 | 24.1  | 29.7  | 32.9  | 27.9  | 30.2  |
| 12   | 3.9                                                                     | 3.5   | 4.0   | 3.8   | 33.                  | 24.4  | 29.8  | 32.6  | 27.9  | 30.1  |
| 13   | 3.7                                                                     | 3.1   | 2.7   | 3.2   | 33.7                 | 24.9  | 30.2  | 33.1  | 27.6  | 30.3  |
| 14   | 2.9                                                                     | 3.2   | 3.5   | 3.2   | 33.4                 | 25.6  | 30.1  | 33.1  | 27.6  | 30.3  |
| 15   | 4.8                                                                     | 5.1   | 6.0   | 5.3   | 33.3                 | 23.8  | 30.4  | 32.2  | 27.4  | 30.0  |
| 16   | 56.8                                                                    | 55.9  | 55.6  | 56.1  | 33.4                 | 25.4  | 30.9  | 32.1  | 27.1  | 30.0  |
| 17   | 4.9                                                                     | 4.3   | 4.0   | 4.4   | 33.1                 | 24.4  | 29.6  | 33.0  | 27.6  | 30.1  |
| 18   | 2.7                                                                     | 2.6   | 1.6   | 2.3   | 32.9                 | 25.0  | 29.9  | 32.6  | 27.6  | 30.0  |
| 19   | 2.6                                                                     | 2.6   | 2.9   | 2.7   | 33.2                 | 24.2  | 29.8  | 32.2  | 27.6  | 29.9  |
| 20   | 4.9                                                                     | 4.5   | 5.0   | 4.8   | 33.4                 | 24.1  | 30.0  | 32.2  | 27.4  | 29.9  |
| 21   | 55.2                                                                    | 54.5  | 54.7  | 54.8  | 33.3                 | 24.7  | 29.6  | 32.7  | 27.6  | 30.0  |
| 22   | 4.3                                                                     | 3.8   | 4.8   | 4.3   | 33.1                 | 25.1  | 30.1  | 32.7  | 26.8  | 29.9  |
| 23   | 5.3                                                                     | 4.9   | 5.7   | 5.3   | 32.5                 | 23.7  | 29.2  | 31.2  | 26.7  | 29.2  |
| 24   | 7.2                                                                     | 6.6   | 7.4   | 7.1   | 33.3                 | 23.3  | 29.1  | 32.8  | 26.9  | 29.6  |
| 25   | 7.1                                                                     | 6.4   | 6.6   | 6.7   | 31.9                 | 24.5  | 28.6  | 28.1  | 26.2  | 27.6  |
| 26   | 56.5                                                                    | 55.5  | 55.2  | 55.7  | 32.8                 | 24.4  | 29.1  | 31.7  | 27.3  | 29.4  |
| 27   | 5.1                                                                     | 5.1   | 5.8   | 5.3   | 32.6                 | 24.4  | 29.3  | 32.2  | 26.6  | 29.4  |
| 28   | 6.3                                                                     | 5.8   | 6.2   | 6.1   | 32.4                 | 23.9  | 28.9  | 31.7  | 26.4  | 29.0  |
| 29   | 5.9                                                                     | 4.8   | 4.9   | 5.2   | 31.9                 | 23.4  | 29.0  | 31.6  | 27.3  | 29.3  |
| 30   | 5.0                                                                     | 4.2   | 5.0   | 4.7   | 32.3                 | 25.4  | 28.9  | 31.6  | 27.2  | 29.2  |
| 31   | 6.8                                                                     | 6.4   | 6.6   | 6.6   | 31.9                 | 24.5  | 28.6  | 30.9  | 26.5  | 28.7  |
|      | 54.80                                                                   | 54.51 | 54.76 | 54.69 | 32.98                | 24.44 | 29.59 | 32.09 | 27.20 | 29.63 |

Barometer, Range for month 751.6-757.4 m.m.

„ 50-yr. average for month 756.173 m.m.

Thermometer, Range for month 23.3°-33.7° C

„ 50-yr. average for month 28.39° C.

Rain, total for month 0.0 m.m.

„ , 50-yr average for month 0.51 m.m.

„ , total Sept. 1st to end of month 874.83 m.m.

„ ,50-yr. average, Sept. 1st to end of month. 907.56 m.m

# AUGUST 1931

## METEOROLOGICAL REGISTER

| Date | Wet Bulb Cent. |       |       | Elasticity of Vapor<br>m. m. |       |       |       | Relative Moisture<br>per cent. |       |       |       | Sun<br>hrs. | Rain<br>m. m. |
|------|----------------|-------|-------|------------------------------|-------|-------|-------|--------------------------------|-------|-------|-------|-------------|---------------|
|      | 8.30           | 14.30 | 20.30 | 8.30                         | 14.30 | 20.30 | Mean  | 8.30                           | 14.30 | 20.30 | Mean  |             |               |
| 1    | 25.2           | 25.0  | 23.5  | 19.9                         | 17.9  | 18.4  | 18.7  | 64                             | 50    | 68    | 61    | 11.0        |               |
| 2    | 22.1           | 23.7  | 21.3  | 14.7                         | 15.6  | 16.2  | 15.5  | 48                             | 43    | 65    | 52    | 12.8        |               |
| 3    | 21.7           | 23.5  | 22.6  | 14.9                         | 16.0  | 17.3  | 16.1  | 53                             | 47    | 67    | 56    | 13.2        |               |
| 4    | 24.5           | 23.1  | 24.8  | 18.4                         | 16.5  | 21.0  | 18.6  | 58                             | 55    | 77    | 63    | 12.8        |               |
| 5    | 22.9           | 26.3  | 24.9  | 16.0                         | 20.5  | 21.0  | 19.2  | 53                             | 57    | 76    | 62    | 12.7        |               |
| 6    | 25.7           | 26.6  | 24.6  | 20.7                         | 20.2  | 20.7  | 20.5  | 64                             | 52    | 77    | 64    | 12.6        |               |
| 7    | 25.5           | 25.9  | 23.2  | 20.8                         | 19.1  | 17.7  | 19.2  | 68                             | 51    | 64    | 61    | 12.9        |               |
| 8    | 24.7           | 25.5  | 23.8  | 18.8                         | 17.7  | 18.9  | 18.5  | 59                             | 52    | 70    | 60    | 12.7        |               |
| 9    | 24.9           | 26.1  | 24.4  | 19.2                         | 19.4  | 20.0  | 19.5  | 60                             | 51    | 73    | 61    | 12.6        |               |
| 10   | 25.0           | 26.1  | 25.1  | 19.5                         | 20.0  | 21.6  | 20.4  | 62                             | 48    | 80    | 63    | 12.4        |               |
| 11   | 25.2           | 26.8  | 24.9  | 20.1                         | 21.0  | 20.8  | 20.6  | 65                             | 56    | 75    | 65    | 12.8        |               |
| 12   | 25.4           | 26.9  | 25.4  | 20.4                         | 21.5  | 21.9  | 21.3  | 65                             | 59    | 78    | 67    | 12.6        |               |
| 13   | 25.8           | 27.0  | 25.1  | 20.8                         | 21.2  | 21.3  | 21.1  | 65                             | 56    | 78    | 66    | 12.4        |               |
| 14   | 25.2           | 26.9  | 23.8  | 19.7                         | 21.1  | 18.8  | 19.9  | 62                             | 56    | 69    | 62    | 12.1        |               |
| 15   | 23.8           | 25.7  | 24.6  | 17.0                         | 19.2  | 20.1  | 18.8  | 53                             | 54    | 71    | 59    | 12.1        |               |
| 16   | 25.7           | 25.8  | 24.9  | 20.2                         | 19.5  | 21.3  | 20.3  | 60                             | 55    | 79    | 65    | 11.8        |               |
| 17   | 25.4           | 26.7  | 24.9  | 20.5                         | 20.5  | 21.0  | 20.7  | 66                             | 55    | 76    | 66    | 12.2        |               |
| 18   | 25.1           | 26.0  | 24.4  | 19.6                         | 19.7  | 20.0  | 19.8  | 62                             | 53    | 73    | 63    | 11.8        |               |
| 19   | 24.8           | 25.9  | 24.6  | 19.2                         | 19.6  | 20.5  | 19.8  | 61                             | 55    | 75    | 64    | 11.9        |               |
| 20   | 25.3           | 26.1  | 24.9  | 19.9                         | 19.9  | 21.3  | 20.4  | 63                             | 56    | 79    | 66    | 11.5        |               |
| 21   | 26.0           | 26.4  | 25.5  | 21.8                         | 20.3  | 22.4  | 21.5  | 70                             | 55    | 83    | 69    | 12.1        |               |
| 22   | 25.3           | 26.6  | 23.8  | 19.9                         | 20.6  | 19.3  | 19.8  | 63                             | 55    | 71    | 63    | 12.1        |               |
| 23   | 23.8           | 25.0  | 23.7  | 17.8                         | 18.1  | 19.3  | 18.4  | 59                             | 51    | 74    | 61    | 12.2        |               |
| 24   | 24.7           | 25.8  | 23.9  | 19.4                         | 19.1  | 19.6  | 19.4  | 65                             | 52    | 74    | 64    | 12.1        |               |
| 25   | 22.6           | 22.8  | 22.2  | 15.9                         | 16.7  | 16.8  | 16.5  | 54                             | 58    | 66    | 59    | 12.0        |               |
| 26   | 23.9           | 25.5  | 24.1  | 18.0                         | 19.1  | 19.6  | 18.9  | 59                             | 55    | 74    | 63    | 10.0        |               |
| 27   | 24.7           | 25.8  | 24.3  | 19.2                         | 19.5  | 20.7  | 19.8  | 64                             | 55    | 79    | 66    | 11.4        |               |
| 28   | 25.1           | 25.5  | 23.2  | 20.3                         | 19.1  | 18.6  | 19.3  | 69                             | 55    | 72    | 65    | 11.3        |               |
| 29   | 24.3           | 24.4  | 22.9  | 18.7                         | 17.1  | 17.3  | 17.7  | 63                             | 49    | 65    | 59    | 9.3         |               |
| 30   | 23.5           | 23.8  | 22.9  | 17.3                         | 16.2  | 17.4  | 17.0  | 58                             | 46    | 65    | 56    | 10.5        |               |
| 31   | 22.7           | 23.1  | 21.7  | 16.1                         | 15.4  | 15.8  | 15.8  | 54                             | 46    | 60    | 53    | 10.6        |               |
|      | 24.53          | 25.49 | 24.01 | 18.86                        | 18.94 | 19.53 | 19.13 | 60.80                          | 52.84 | 72.68 | 62.09 | 11.98       |               |

Height of Barometer above sea level: 33.7 meters.

" " Thermometers above ground:

Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m

Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.

Time of readings minus 2 hours equals G. C. T.

50-year averages are for period, 1875-1924

# AUGUST 1931

## METEOROLOGICAL REGISTER

| Date | Clouds. Clear—0<br>Overcast—10 |       |       |      | Direction and<br>force of Wind<br>0—10 |        |       | Wind<br>per<br>day | Sea    | Notes     |
|------|--------------------------------|-------|-------|------|----------------------------------------|--------|-------|--------------------|--------|-----------|
|      | 8:30                           | 14:30 | 20:30 | Mean | 8:30                                   | 14:30  | 20:30 | Km.                |        |           |
| 1    | 3cu                            | 2stcu | 3cu   | 2.6  | 1sw                                    | 2w     | 1w    | 416.8              | slight |           |
| 2    | 1st                            | 1st   | 0     | 0.3  | 2nw                                    | 2w     | 0     | 342.8              | "      |           |
| 3    | 5stcu                          | 0     | 0     | 1.6  | 0                                      | 0      | 0     | 146.4              | light  |           |
| 4    | 0                              | 0     | 0     | 0.0  | 0                                      | 0      | 0     | 35.4               | slight | haze a.m. |
| 5    | 0                              | 1stcu | 1st   | 0.7  | 1sw                                    | 1w     | 0     | 370.1              | calm   | haze a.m. |
| 6    | 0                              | 1stcu | 0     | 0.3  | 1sw                                    | 2nw    | 1sw   | 342.8              | "      | haze a.m. |
| 7    | 2stcu                          | 0     | 0     | 0.7  | 1w                                     | 1nw    | 1sw   | 226.9              | "      |           |
| 8    | 2stcu                          | 1cu   | 1cu   | 1.3  | 0                                      | 2w     | 1sw   | 410.3              | slight |           |
| 9    | 1cu                            | 2stcu | 0     | 1.0  | 1sw                                    | 2w     | 1sw   | 600.2              | light  |           |
| 10   | 1cu                            | 1stcu | 0     | 0.7  | 1w                                     | 2sw    | 0     | 537.6              | calm   |           |
| 11   | 0                              | 1cu   | 0     | 0.3  | 3sw                                    | 2w     | 1sw   | 447.4              | "      |           |
| 12   | 0                              | 0     | 0     | 0.0  | 3sw                                    | 3sw    | 1sw   | 468.3              | "      |           |
| 13   | 1cu                            | 0     | 0     | 0.3  | 2sw                                    | 3w     | 2sw   | 544.0              | light  |           |
| 14   | 1cu                            | 4stcu | 0     | 1.7  | 2sw                                    | 1sw    | 1sw   | 595.5              | "      |           |
| 15   | 1cu                            | 4stcu | 0     | 1.7  | 1w                                     | 2nw    | 0     | 379.8              | slight |           |
| 16   | 3stcu                          | 1st   | 1st   | 1.7  | 0                                      | 1sw    | 0     | 41.8               | light  | haze a.m. |
| 17   | 1st                            | 2stcu | 1st   | 1.3  | 1nw                                    | 2w     | 0     | 307.4              | calm   |           |
| 18   | 2stcu                          | 1stcu | 0     | 1.0  | 3sw                                    | 3sw    | 1sw   | 482.8              | light  |           |
| 19   | 2stcu                          | 1stcu | 1st   | 1.3  | 1sw                                    | 2w     | 0     | 387.8              | calm   |           |
| 20   | 2stcu                          | 1stcu | 0     | 1.0  | 0                                      | 1w     | 0     | 276.4              | "      |           |
| 21   | 0                              | 0     | 0     | 0.0  | 1sw                                    | 1w     | 0     | 263.6              | "      |           |
| 22   | 0                              | 1stcu | 0     | 0.3  | 1sw                                    | 1w     | 1w    | 424.8              | light  |           |
| 23   | 1cu                            | 0     | 0     | 0.3  | 1sw                                    | 2nw    | 0     | 229.4              | calm   |           |
| 24   | 0                              | 1cu   | 0     | 0.3  | 1sw                                    | 2nw    | 0     | 238.2              | "      |           |
| 25   | 4st                            | 1cu   | 1stcu | 2.0  | 2sw                                    | 1sw    | 0     | 268.8              | light  |           |
| 26   | 1st                            | 4stcu | 0     | 1.7  | 1sw                                    | 2nw    | 0     | 251.0              | calm   | haze a.m. |
| 27   | 1st                            | 1cu   | 0     | 0.7  | 0                                      | 1sw    | 0     | 191.5              | "      | haze a.m. |
| 28   | 3stcu                          | 2stcu | 0     | 1.7  | 0                                      | 3sw    | 0     | 175.4              | "      |           |
| 29   | 2stcu                          | 1stcu | 1cu   | 1.3  | 2nw                                    | 1nw    | 1w    | 246.2              | light  |           |
| 30   | 0                              | 0     | 1stcu | 0.3  | 2sw                                    | 1sw    | 1w    | 249.4              | "      |           |
| 31   | 4st                            | 0     | 1st   | 1.7  | 0 35                                   | 1nw 50 | 0 14  | 107.8              | "      |           |
|      |                                |       |       | 0.93 | 1.1                                    | 1.6    | 0.5   | 325.05             |        |           |

### NUMBER OF DAILY WIND OBSERVATIONS

| Time   | N | NE | E | SE | S | SW | W  | NW | Calm |
|--------|---|----|---|----|---|----|----|----|------|
| 8:30   | 0 | 0  | 0 | 0  | 0 | 17 | 3  | 3  | 8    |
| 14:30  | 0 | 0  | 0 | 0  | 0 | 9  | 12 | 8  | 2    |
| 20:30  | 0 | 0  | 0 | 0  | 0 | 9  | 4  | 0  | 18   |
| Totals | 0 | 0  | 0 | 0  | 0 | 35 | 19 | 11 | 28   |

Number of days with rain 0, fog 0, thunderstorms 0, gales 0

50-yr average number of days with rain during month 0.2